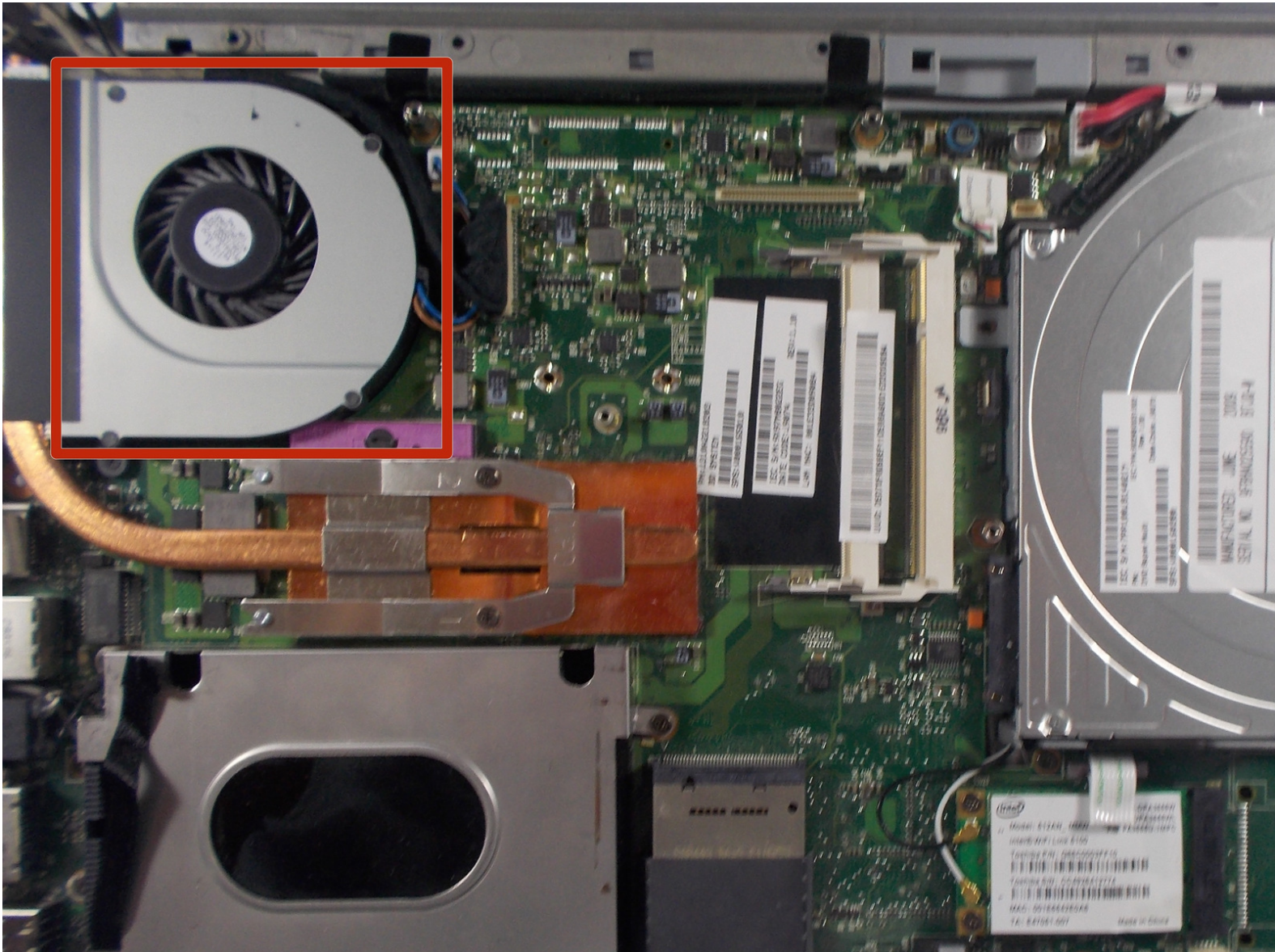




Toshiba Satellite E105-S1602 Cooling Fan Replacement

Use this guide to replace/remove the cooling fan in your device.

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INTRODUCTION

The cooling fan keeps the device from overheating. If a device overheats, it can shut down.

TOOLS:

- [Phillips #00 Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
-

Step 1 — Battery



- Slide both of the latches to the outside to release the battery.

Step 2



- Pull the battery out by lifting the battery cover away from the laptop.

Step 3 — Keyboard



- Flip the computer over and insert the plastic opening tool under the plastic strip at the top of the keyboard.
- Pry the top plastic strip from the top of the keyboard.
- Peel the strip completely away from the keyboard.

Step 4



- Using your Phillips #00, unscrew the two 4.80mm screws at the top of the keyboard.

Step 5



⚠ When removing the keyboard, be careful not to rip the ribbon cable connecting the keyboard to the computer, to avoid damaging it.

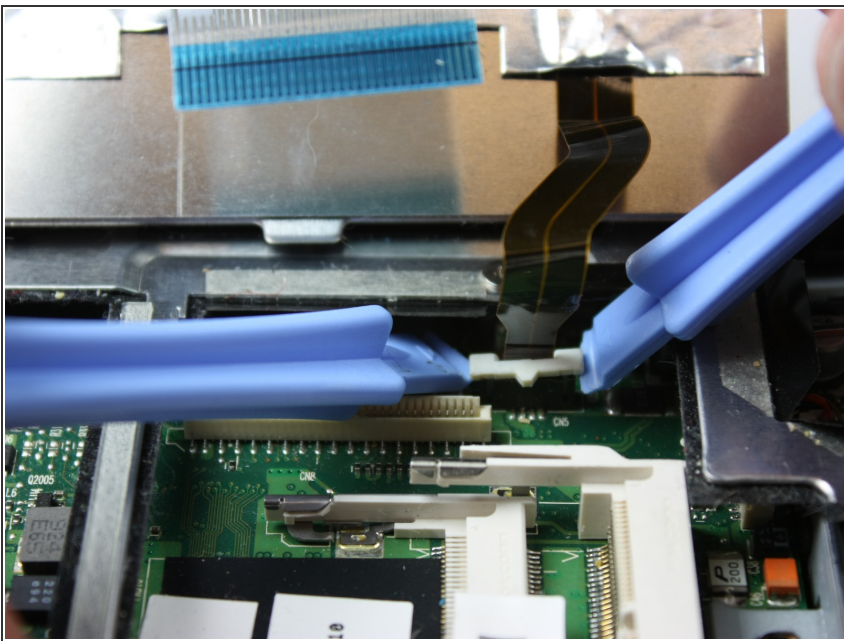
- Flip the keyboard up from the bottom in order to see the two ribbons connecting it to the motherboard.

Step 6



- Using the plastic opening tools, pop out the ribbon cable from the rest of the computer.

Step 7



- Using the plastic opening tools, pop out the second ribbon cable from the rest of the computer.

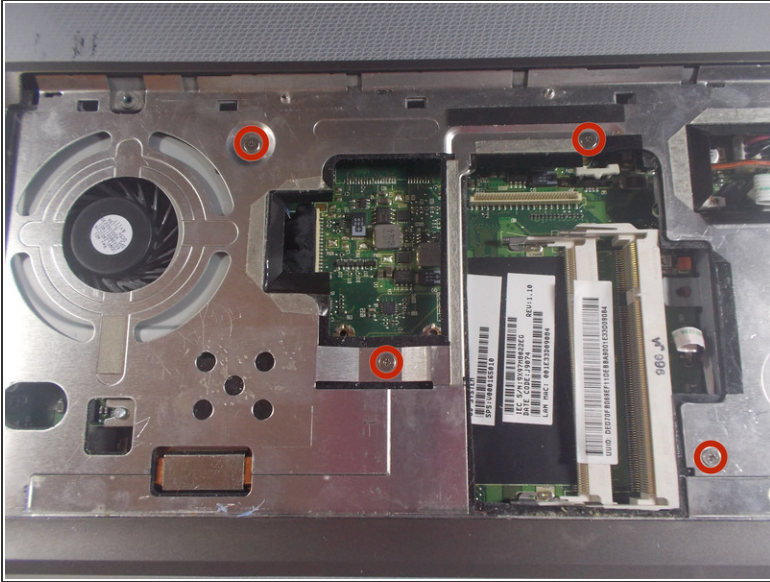
Step 8



- Completely remove the keyboard from the laptop by lifting up the part closest to the screen, and then gently pulling out the bottom half.

i Keep the keyboard safe by storing it on a flat, non-metallic surface until needed.

Step 9 — Front Panel



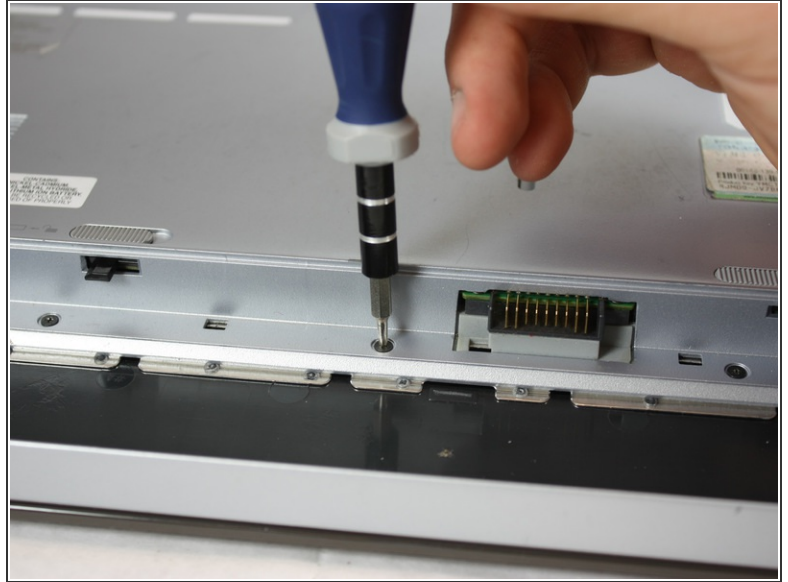
- Locate the four silver screws on the front panel.
- Using the Phillips #0, unscrew to remove all four 2.95mm silver screws.

Step 10



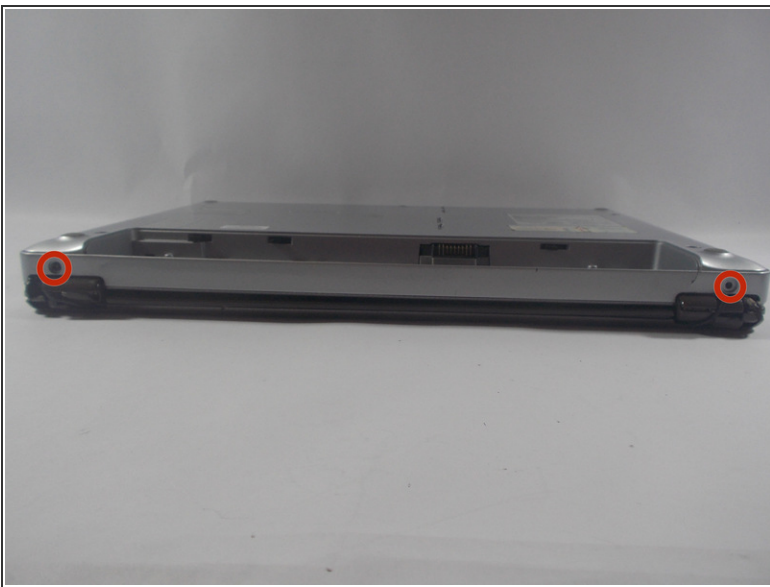
- Flip the laptop over and locate all seven screws on the bottom of the laptop.
- Unscrew all seven Philips#00 7.70mm screws.

Step 11



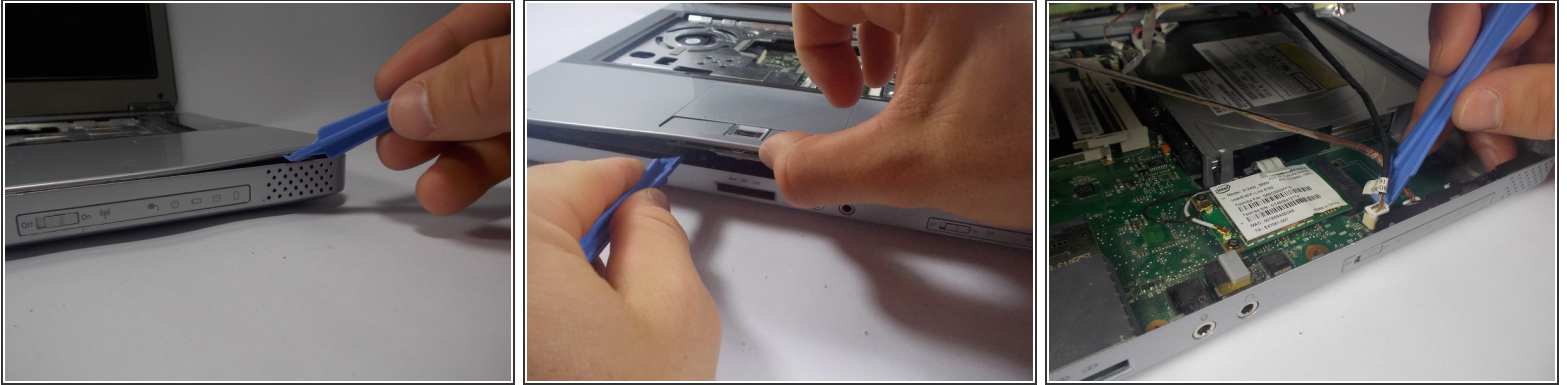
- Locate and unscrew the three silver Philips #00 2.85mm screws inside the battery compartment.
- Locate and unscrew the five black Philips #00 3.25mm screws inside the battery compartment.

Step 12



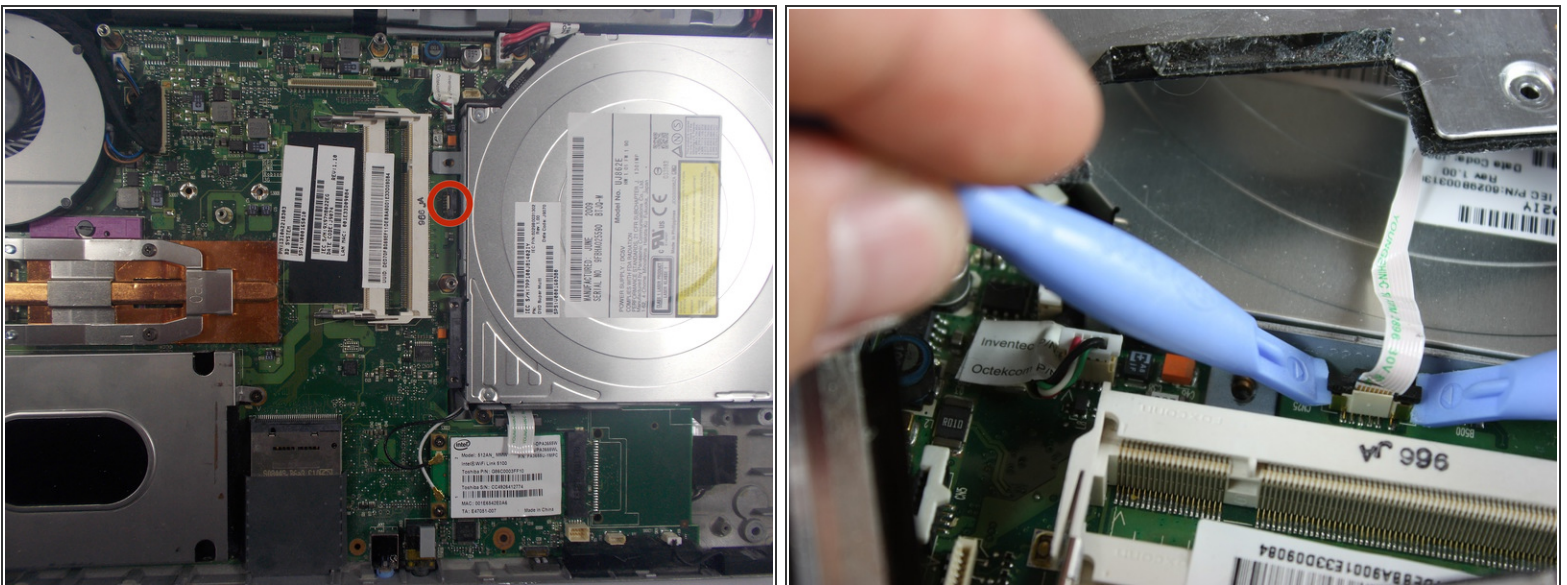
- Rotate the laptop so the back faces you.
- Locate the two black Philips #00 7.65 screws, one by each hinge, and remove.

Step 13



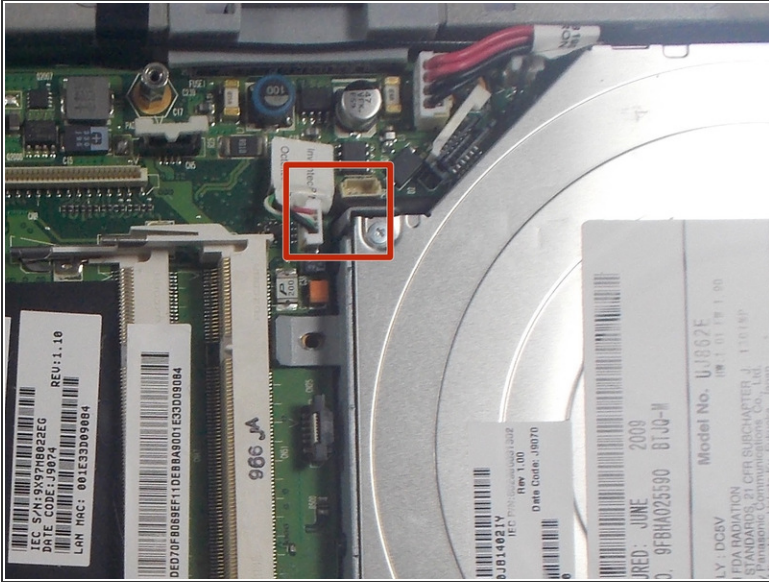
- Use the plastic opening tool to pry the top panel up from the base of the computer.
 - Slowly work your way around the computer with the plastic removing tool to make it easier to lift the top panel away from the base.
- ⚠ Carefully lift the top panel no more than six inches, as there are ribbon cables connecting the two pieces.
- Disconnect ribbons, and slowly lift the top panel up, away from the base.

Step 14



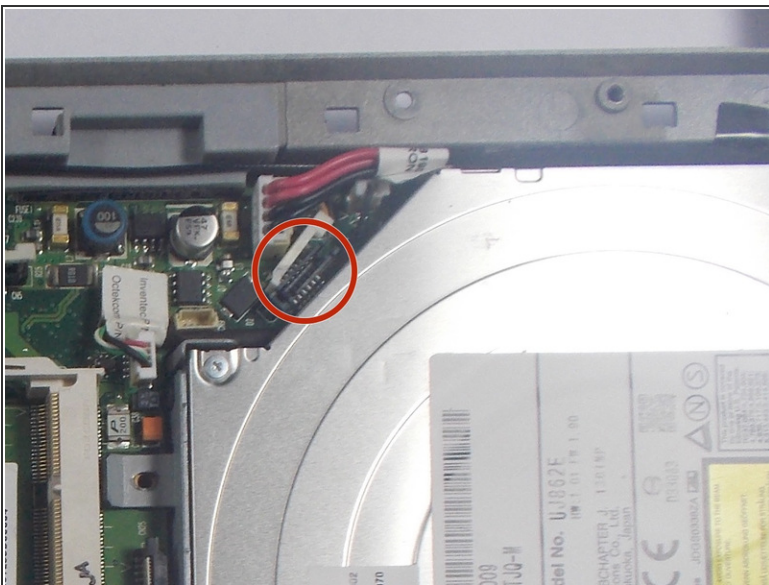
- Locate the ribbon cable from the motherboard.
- Using plastic removing tools, pop the ribbon base from the motherboard.

Step 15



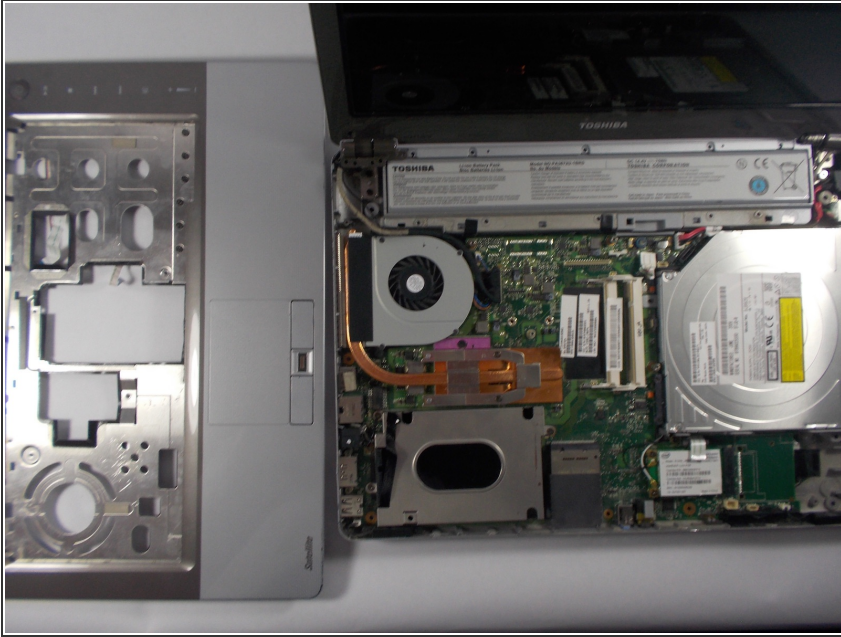
- Locate the two plugs from the motherboard.
- Using plastic opening tools, remove each plug from the motherboard.

Step 16



- Locate the ribbon cable partially hidden under the front panel.
- Using plastic opening tools, pop out the ribbon cable from the motherboard.

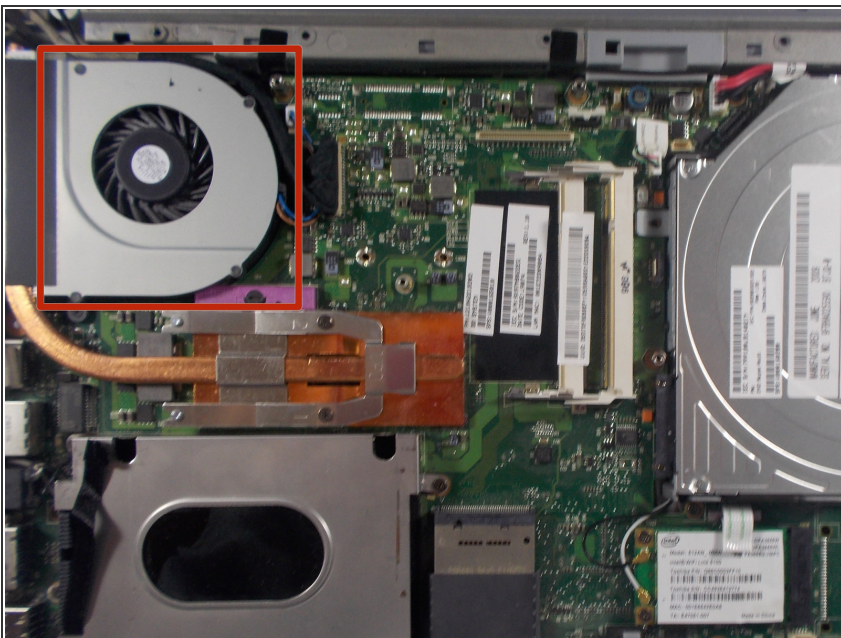
Step 17



⚠ Make sure that all wires have been disconnected before proceeding to avoid damaging components.

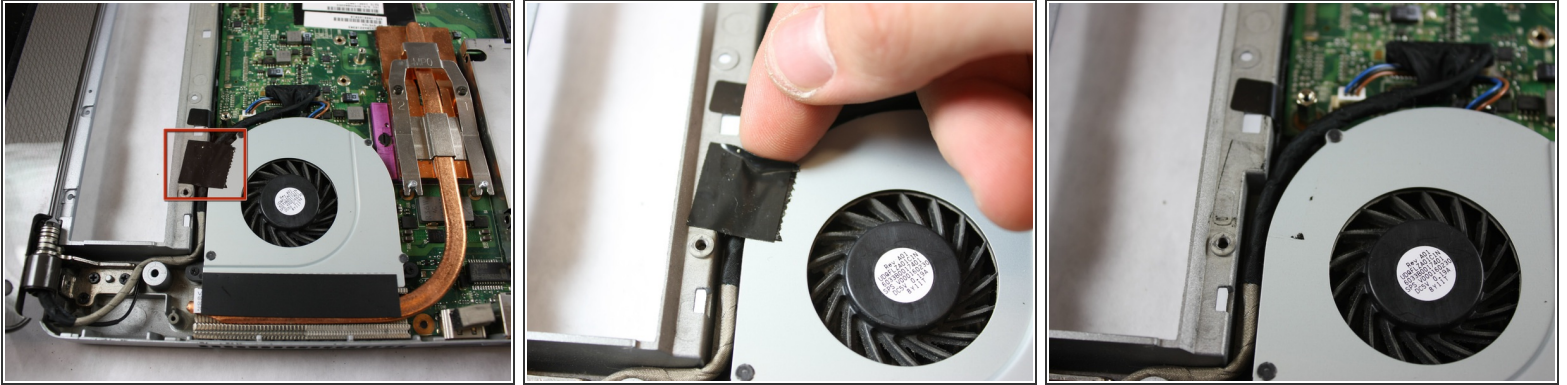
- Slowly lift the top panel away from the base of the computer.
- Place the top panel away from the computer and keep in a flat non-metallic surface until needed.

Step 18 — Cooling Fan



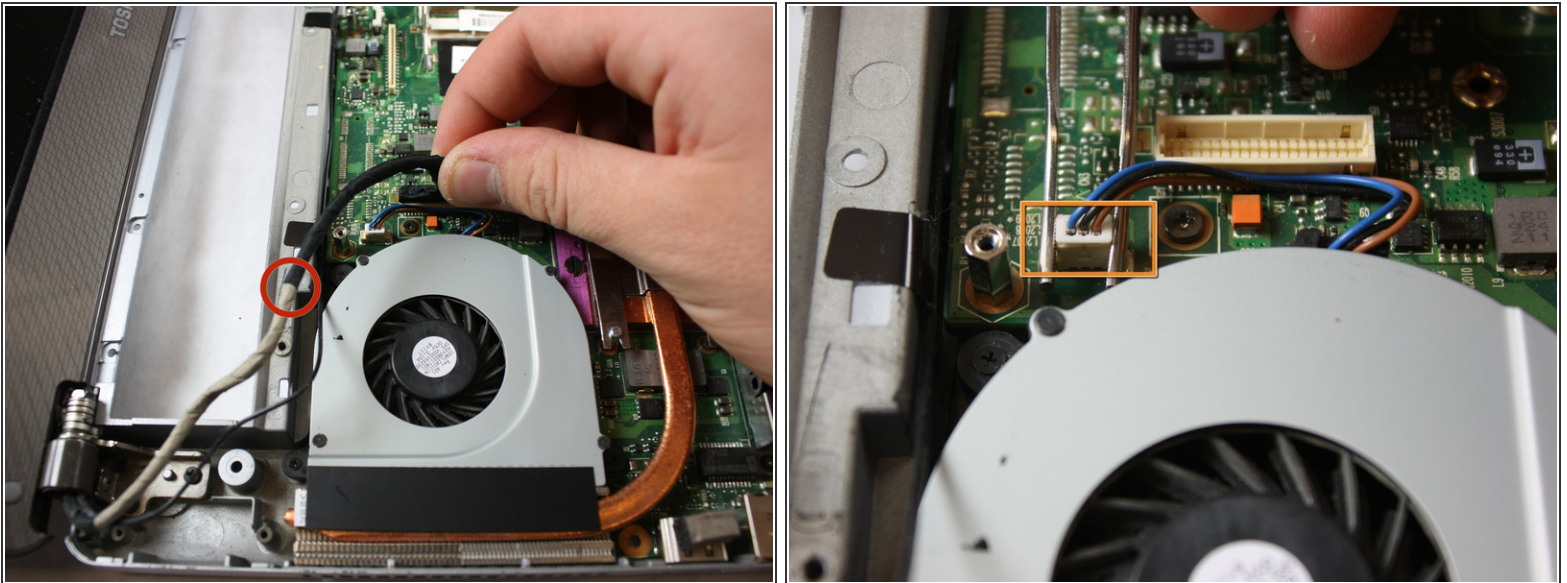
- Locate the fan in the back left corner of the motherboard.

Step 19



- Rotate the laptop so the cooling fan is closest to you.
- Locate the piece of electrical tape holding the screen wired, on top of the fan.
- Tear away the piece of electrical tape.

Step 20



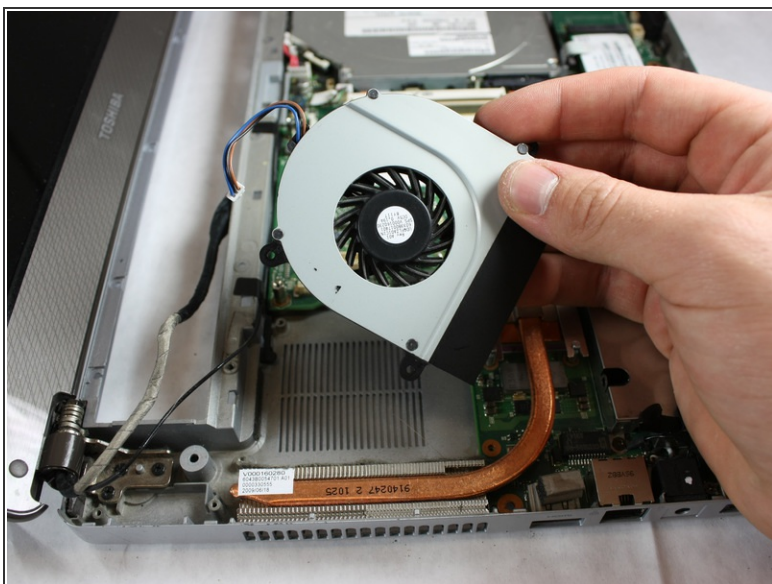
- Find the screen wires that the tape was holding down and move them off to the side.
- Locate and pop out the plug connecting the fan to the motherboard.

Step 21



- Locate and remove the three Philips #00 5.65mm screws holding the fan in.

Step 22



- Lift the fan straight up and out of the computer.
- Look for and remove any built up dust, lint, hair.

To reassemble your device, follow these instructions in reverse order.

